

Name: \_\_\_\_\_

## p1028b: Combine Like Terms (v20)

### Example

Combine like terms.

$$-4x + 2 - 2 - 8 - x + 6x^2 + 5x - 7x^2 + 3x^2 + 7x$$

### Answer

Combine the quadratic terms.

$$6x^2 - 7x^2 + 3x^2 \equiv 2x^2$$

Combine the linear terms.

$$-4x - x + 5x + 7x \equiv 7x$$

Combine the constant terms.

$$2 - 2 - 8 \equiv -8$$

The final result:

$$2x^2 + 7x - 8$$

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### Question 1

Combine like terms.

$$-5x^2 - 1 + 4 - 8x + 8x^2 - 4x + 9x + 6x^2 - 7 - 2x$$

**Question 2**

Combine like terms.

$$7 + 8x - 9 + 6x - 4 + 4x^2 - 8x^2 + 5x^2 + x + 2$$

**Question 3**

Combine like terms.

$$-9x - 3 + 8x^2 + 9 + 3x^2 + 5 - 7x + 4x - x^2 + 6x^2$$

**Question 4**

Combine like terms.

$$5 - 5 + 4x^2 - 7x + 9 - 8x + 2x^2 + 7x - 4x^2 - 2$$